



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gust et al.  
Serial No.: 09/806,540  
Filed: March 30, 2001  
For: *MAGNETIC SWITCHING OF CHARGE SEPARATION LIFETIMES IN ARTIFICIAL PHOTOSYNTHETIC*  
Group Art Unit: 2874  
Examiner: Healy, B.

#8/a  
martha  
1/6/04

RESPONSE TO OFFICE ACTION

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313

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TECHNOLOGY CENTER 2800

Dear Sir:

In response to the Office Action mailed February 12, 2003, and in the matter of the above-identified case, Applicants respectfully submit the following:

IN THE CLAIMS:

Please cancel claims 2-5.

Please amend Claim 1 as follows:

1. (Amended once) A magnetically activated optoelectronic logic gate comprising:
- means for receiving and storing electromagnetic radiation signals of ultraviolet or visible wavelength, magnetic field signals and combinations thereof; and
  - means for selectively accessing said stored signals to deliver said selected signals for signal processing.

Please add new claims 6-21 as follows.

6. (New) The optoelectronic logic gate of Claim 1 wherein said means for receiving and storing electromagnetic radiation signals is a photoreactive molecule capable of forming transient species when activated by said electromagnetic radiation signal, the lifetime of said transient species being modified in the presence of a magnetic field.

approved  
for  
entry  
SWH  
1/6/03